IN THE CLAIMS

Claim 1 (Currently Amended): A sender device for sending an encrypted <u>information signal</u>, the device comprising:

a chaos generator producing an encrypted electrical signal, and
a feedback loop comprising means for delayline forming, a non-linear circuit
element, and a mixer circuit element which receives the loop signal on one input and
the signal to be encrypted on another input,

means for generating chaotic signals comprising
a source producing a chaotic signal and provided with a feedback loop
comprising means for generating time delay, and a non-linear circuit
element,

means for producing the encrypted information signal comprising

a mixer circuit element to inject an information signal to encrypt the information

signal, received on one input, into the chaotic signal propagating in the feedback loop,

received on another input,

wherein the feedback loop includes means for filter-forming which to limit the spectrum of the encrypted chaotic signals to one or more spectrum bands.

Claim 2 (Currently Amended): A-The sender device according to claim 1, wherein said means for filter-forming disposed in the feedback loop present a transfer function which distributes the chaotic signal statistically over a given spectral profile.

Claim 3 (Currently Amended): A-<u>The</u> sender device according to claim 1, wherein the means for filter-forming disposed in the feedback loop comprise a bandpass filter.

Claim 4 (Currently Amended): A-The sender device according to claim 3, wherein the a passband of said filter covers the a spectral band of the information signal to be encrypted, having a bandwidth that is slightly greater than that of said spectral band.

Claim 5 (Currently Amended): A sender device for emitting an encrypted <u>information</u> signal, the device having a plurality of sender modules in cascade, each being constituted by a device according to claim 1.

Claim 6 (Currently Amended): A receiver device for receiving an encrypted <u>information</u> signal, the device comprising means for receiving said signal, and

a feedback loop comprising means for delayline-forming and a non-linear circuit element, wherein in order to receive an information signal encrypted by a device according to claim 1, the feedback loop includes means for filter-forming whose characteristics are identical to those of the means for filter-forming in the feedback loop of the sender device.

Claim 7 (Currently Amended): A receiver device for receiving an information signal encrypted by a sender device comprising a plurality of sender modules, <u>each</u> being constituted by a device according to claim 1, the receiver device comprising a plurality of receiver modules in cascade, the number of these modules being the same as the number of modules in the sender device, means for filter-forming in feedback loops of the <u>reception-receiver</u> modules having characteristics that are identical to those of means for filter-forming in a feedback loop of the sender modules.

Claim 8 (Currently Amended): A sender/and or receiver device for an encrypted <u>information</u> signal for transmission by radio over a voice signal carrier, the device including a device according to claim 1.

Claim 9 (Currently Amended): A transmission system for transmitting encrypted <u>information</u> signals, the system comprising a sender device according to claim 1, a complementary receiver device, and a <u>unique</u> transmission channel between said sender device and said receiver device.

Claim 10 (Currently Amended): A radio transmission system for transmitting encrypted <u>information</u> signals, the system comprising a sender device according to claim 1, a complementary receiver device, and a transmission channel between said sender device and said receiver device, said transmission channel including means for analog-to-digital converting and means for digital-to-analog converting respectively downstream and upstream from the sender device and from the receiver device.